

U.S. Serial No.: 09/717,095 Filed: November 22, 2000
Inventor: Aaron I Vinik et al.
Title: "Ingap Protein Involved in Pancreatic Islet Neogenesis"
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FIG. 1A

CTGCAAGACA GGTACCATG ATG CTT CCC ATG ACC CTC TGT AGG ATG TCT TGG Met Leu Pro Met Thr Leu Cys Arg Met Ser Trp 1 5 10	52
ATG CTG CTT TCC TGC CTG ATG TTG CTT TCT TGG GTG GAA GGT GAA GAA Met Leu Leu Ser Cys Leu Met Phe Leu Ser Trp Val Glu Gly Glu Glu 15 20 25	100
TCT CAA AAG AAA CTG CCT TCT TCA CGT ATA ACC TGT CCT CAA GGC TCT Ser Gln Lys Lys Leu Pro Ser Ser Arg Ile Thr Cys Pro Gln Gly Ser 30 35 40	148
GTA GCC TAT GGG TCC TAT TGC TAT TCA CTG ATT TTG ATA CCA CAG ACC Val Ala Tyr Gly Ser Tyr Cys Tyr Ser Leu Ile Leu Ile Pro Gln Thr 45 50 55	196
TGG TCT AAT GCA GAA CTA TCC TGC CAG ATG CAT TTC TCA GGA CAC CTG Trp Ser Asn Ala Glu Leu Ser Cys Gln Met His Phe Ser Gly His Leu 60 65 70 75	244
GCA TTT CTT CTC AGT ACT GGT GAA ATT ACC TTC GTG TCC TCC CTT GTG Ala Phe Leu Leu Ser Thr Gly Glu Ile Thr Phe Val Ser Ser Leu Val 80 85 90	292
AAG AAC AGT TTG ACG GCC TAC CAG TAC ATC TGG ATT GGA CTC CAT GAT Lys Asn Ser Leu Thr Ala Tyr Gln Tyr Ile Trp Ile Gly Leu His Asp 95 100 105	340

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FIG. 1B

388	CCC TCA CAT GGT ACA CTA CCC AAC GGA AGT GGA TGG RAG TGG AGC AGT Pro Ser His Gly Thr Leu Pro Asn Gly Ser Gly Trp Lys Trp Ser Ser 110 115 120
436	TCC AAT GTG CTG ACC TTC TAT AAC TGG GAG AGG AAC CCC TCT ATT GCT Ser Asn Val Leu Thr Phe Tyr Asn Trp Glu Arg Asn Pro Ser Ile Ala 125 130 135
484	GCT GAC CGT GGT TAT TGT GCA GTT TTG TCT CAG AAA TCA GGT TTT CAG Ala Asp Arg Gly Tyr Cys Ala Val Leu Ser Gln Lys Ser Gly Phe Gln 140 145 150 155
532	AAG TGG AGA GAT TTT AAT TGT GAA AAT GAG CTT CCC TAT ATC TGC AAA Lys Trp Arg Asp Phe Asn Cys Glu Asn Glu Leu Pro Tyr Ile Cys Lys 160 165 170
581	TTC AAG GTC TAGGGCAGTT CTAATTTCAA CAGCTTGAAA ATATTATGAA Phe Lys Val
641	GCTCACATGG ACAAGGAAGC AAGTATGAGG ATTCACTCAG GAAGAGCAAG CTCTGCCTAC
701	ACACCCACAC CAATTCCCTT ATATCATCTC TGCTGTGTTTT CTATCAGTAT ATTCTGTGTT
747	GGCTGTAAACC TAAAGGCTCA GAGAACAATA ATAAATGTC ATCAAC

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FIG. 2

INGAP	MLPMTLC-RMSWMLLSCLMFLSWVEGEESQKKLPSS	35
PAP-I	MLHRLAFPVMSWMLLSCLMLLSQVQGEDSPKKIPSA	36
PAP-H/HIP	MLPPMALPSVSWMLLSCLMLLSQVQGEEPQRELPSA	36
PAP-III	MLPRVALTTMSWMLLSCLMLLSQVQGEDAKEDVPTS	36
PAP-II	MLPRLSFNNVSWTLLYYLFIF-QVRGEDSQKAVPST	35
REG/LITH	----MT-RNKYFILLSCLMVLSPSQGQEAEDLPSA	31
"DRICKAMER"		

	* *	
INGAP	RITCPQGSVAYGSYCYSLILIPQTWSNAELSCQMHF	71
PAP-I	RISCPKGSQAYGSYCYALFQIPQTWFDALACQKRP	72
PAP-H/HIP	RIRCPKGSKAYGSHCYALFLSPKSWTDADLACQKRP	72
PAP-III	RISCPKGSRAYGSYCYALFSVSKSWFDADLACQKRP	72
PAP-II	RTSCPMGSKAYRSYCYTLVTTLKSWFQADLACQKRP	71
REG/LITH	RITCPEGSNAYSSYCYFMEHLSWAEADLFCQNMN	67
"DRICKAMER"	G C	

INGAP	SGHLAFLSTGEITFVSSLVKNSLTAYQYIWIGLED	107
PAP-I	EGHLVSVLNVAEASFLASMVKNTGNSYQYIWIGLED	108
PAP-H/HIP	SGNLVSVLSGAEGSFVSSLVKSIGNSYSYVWIGLED	108
PAP-III	SGHLVSVLSGSEASFVSSLIKSSGNSGQNVWIGLED	108
PAP-II	SGHLVSVLSGGEASFVSSLVTGRVNNNQDIWIWLHD	107
REG/LITH	SGYLVSVLSQAEGNFLASLIKESGTTAANVWIGLED	103
"DRICKAMER"	G TD	

INGAP	PSHGTLPNGSGWKWSSSNVLTFFYNWERNP S IAADRG	143
PAP-I	PTLGGEPNGGGWEWSNNDIMNYVNWERNPSTALDRG	144
PAP-H/HIP	PTQGTEPNGE G WEWS S SDVMNYFAWERNPSTISSPG	144
PAP-III	PTLGQEPNRGGWEWSNADVMNYFNWETNPSSVSGS-	143
PAP-II	PTMGQQPNGGGWEWSNSDVLNYLNWDGDPSSSTVNRG	143
REG/LITH	P-----KNNRRWHWSSGSLFLYKSWDTGYPNNSNRG	134
"DRICKAMER"	T W P G	

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INGAP	YCAVLSQKSGFQKWRDFNCENELPYICKFKV	175
PAP-I	FCGSLSRSSGFLRWRTTCEVKLPYVCKFTG	176
PAP-H/HIP	ECASLSRSTAF L RWKDYN C NVRLPYVCKFTD	176
PAP-III	HCGTLTRASGFLRWRENNCISELPYVCKFKA	175
PAP-II	NCGSLTATSEFLKWGD B HCDVELPFVCKFKQ	175
REG/LITH	YCVSVTSNSGYKKWRD N SCDAQLSFVCKFKA	165
"DRICKAMER"	EC G WND C CE	

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